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## UTILITY PATENT APPLICATION TRANSMITTAL

YOR920030368US1 (8728-643) Attorney Docket No. Hendrik F. Hamann First Inventor Multi-Bit Phase Change Memory Cell and Multi-Bit .... EV 413369271US Express Mail Label No.

Date

(Only for new nonprovisional applications under 37 CFR 1.53(b)) Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) pecification [Total Pages referred arrangement set forth below) Specification 3. [X] Computer Readable Form (CRF) - Descriptive title of the invention b. Specification Sequence Listing on: Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, ii. 🗍 paper or a computer program listing appendix - Background of the Invention Statements verifying identity of above copies Brief Summary of the Invention
 Brief Description of the Drawings (if filed) **ACCOMPANYING APPLICATION PARTS** - Detailed Description Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure 10. Attorney (when there is an assignee) English Translation Document (if applicable) 12 Drawing(s) (35 U.S.C. 113) [ Total Sheets Copies of IDS Information Disclosure 12. 5. Oath or Declaration [ Total Pages Citations Statement (IDS)/PTO-1449 |X | Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) 13. **Preliminary Amendment** Return Receipt Postcard (MPEP 503) 14. X (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 16. 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. X Other: Associate Power of Attorney 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Correspondence address below (Insert Customer No. or Attach bar code label here) Frank Chau, Esq. Name F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike Address New York City State Zip Code 11554 East Meadow 516-357-0091 USA Country Fax 516-357-0092 Telephone Benjamin M. Halpern 46,494 Registration No. (Attorney/Agent) Name (Print/Type) Signature 20/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO/SB/17 (01-03)

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FEE	TRANSMITTAL	•
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TOTAL AMOUNT OF PAYMENT

(\$)	986	.00

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FEE TRANSMITTAL		Complete if Known				
FEE IRAN	DIVITIAL	Application Number				
for EV	2003	Filing Date	November 20, 2003			
for FY 2003  Effective 01/01/2003. Patent fees are subject to annual revision.		First Named Inventor	Hendrik F. Hamann			
•	•	Examiner Name				
Applicant claims small entity status. See 37 CFR 1.27		Art Unit				
OTAL AMOUNT OF PAYMENT	(\$) 986.00	Attorney Docket No.	YOR920030368US1 (8728-643)			

METHOD OF PAYMENT (check all that apply)				FE	E CALCULATION (continued)	
Check Credit card Money Other None	3. A	DDITI	ONAL	. FEE	S	
Order Order	<u>Large</u>	Entity	Small	Entity		
Deposit Account 50-0510/IBM	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Number	1051	130	2051	65	Surcharge - late filing fee or oath	
Deposit Account Name	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
The Commissioner is authorized to: (check all that apply)	1053	130	1053		Non-English specification	<b></b>
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	<u> </u>
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	410	2252	205	Extension for reply within second month	
Large Entity Small Entity	1253	930	2253	465	Extension for reply within third month	
Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month	
1001 750 2001 275 Utility Sling for	1255	1,970	2255	985	Extension for reply within fifth month	
1002 330 2002 165 Design filing fee 770.00	1401	320	2401	160	Notice of Appeal	
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal	
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,300	2453	650	Petition to revive - unintentional	
Fee from	1501	1,300	2501	650	Utility issue fee (or reissue)	
Extra Claims below Fee Paid  Total Claims 25 -20** = 5 x 18 = 90	1502	470	2502	235	Design issue fee	
Independent 4	1503	630	2503	31,5	Plant issue fee	
Claims	1460	130	1460	130	Petitions to the Commissioner	
200 0	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity Fee Fee   Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be	
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	275	examined (37 CFR 1.129(b))  Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900		
and over original patent		555	1002	550	of a design application	
SUBTOTAL (2) (\$) 176.00		fee (sp				
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic F	iling F	ee Paid SUBTOTAL (3) (\$) 40.00	

SUBMITTED BY (Complete (if applicable) Registration No. Benjamin M. Halpern Name (Print/Type) Telephone 516-357-0091 in. JPJ Signature

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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ATTORNEY DOCKET NO. YOR920030368US1 (8728-643)

Date: November 20, 2003

Express Mail Label: EV 4133692371US1 Date of Deposit: November 20, 2003

Transmitted herewith for filing is the Patent Application of:

Inventors:

Hendrik F. Hamann, Chung Hon Lam, Michelle Leigh Steen, Hon-Sun Philip Wong

For:

FOR:

**BASIC FEE** 

**TOTAL CLAIMS** 

**INDEP CLAIMS** 

MULTI-BIT PHASE CHANGE MEMORY CELL AND MULTI-BIT PHASE CHANGE MEMORY

INCLUDING THE SAME, METHOD OF FORMING A MULTI-BIT PHASE CHANGE MEMORY, AND METHOD OF PROGRAMMING A MULTI-BIT PHASE CHANGE MEMORY

Enclosed are: [X] 18 sheets of specification; [X] 1 sheet(s) of Abstract; [X] 7 sheet(s) of claims; [X] 12 sheet(s) of drawing(s);

- [X] An assignment of the invention to: International Business Machines Corporation, Armonk, New York, with Recordation Form.
- Declaration and Power of Attorney. [X]
- [] A certified copy of a \_\_\_\_\_\_ from which priority under Title 35 USC §119 is claimed.
- [X] Associate Power of Attorney.

The filing fee has been calculated as shown below:

(Col. 1)

25 -20 =

4 - 3 =

NO. FILED

(Col. 2)

NO. EXTRA

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OTHER	THAN A
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RATE	FEE		
	\$ 770.00		
X \$18 =	\$ 90.00		
X \$86 =	\$ 86.00		
+ 290 =	- 1111		
TOTAL	\$ 946.00		

MULTIPLE DEPENDENT CLAIMS PRESENTED

If the difference in Col. 1 is less than zero, enter "0" in Col. 2.

- Checks in the amount of \$\frac{1}{2}\$ and \$\frac{1}{2}\$ to cover the filing fee(s) and recording fee are enclosed. [ ]
- Please charge my Deposit Account No. 50-0510/IBM (Yorktown Heights) in the amount of \$946.00. [X]
- The Commissioner is hereby authorized to charge payment of the following fees [X] associated with this communication or credit any overpayment to Deposit Account No. 50-0510/IBM (Yorktown Heights). A duplicate copy of this sheet is enclosed.
  - [X] Any additional filing fees required under 37 CFR 1.16.
  - Any patent application processing fees under 35 CFR 1.17.

Respectfully submitted,

By:

Please address all correspondence to:

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East Meadow, NY 11554 Tel: (516) 357-0091

Fax: (516) 357-0092

Benjamin M. Halpern

Registration No. 46,494

Attorney for: **IBM** Corporation

Intellectual Property Law Dept.

P.O. Box 218

Yorktown Heights, NY 10598

## **CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date November 20, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV413369271US addressed to: Commissioner for Patents, Mail Stop Patent Application, PO Box 1450, Benjamin M. Halpern Alexandria, VA 22313-1450.